

Device for oil and gas prospecting - has high resolution gamma ray spectrometer provided with means for minimising background radiation

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Patent Family

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Patent Details

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Abstract:

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Device comprises in combinations a high resolution gamma-ray spectrometer provided with means for minimising background radiation from the spectrometer itself, space positioning a sample of soil adjacent the spectrometer, lead shielding surrounding the spectrometer to minimise background radiation, mercury shielding between the spectrometer and the lead shielding so as to remove residual background radiation from impurities in the lead, an array of plastic scintillator counter provided around the system to protect the system from cosmic rays and the radiation shower originating from same, a fast electronic system adapted to veto pulses originating from cosmic rays detected by the scintillators, means for analysing the pulses produced by the spectrometer and for providing information on the isotope concentrations of the sample.

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